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**Title:** JP9330707A2: ROLLER FOR CLOSELY CONTACTING LITHIUM FOIL MANUFACTURE

**Country:** JP Japan

**Kind:** A

**Inventor:** TONOHARA KOUJI;

**Assignee:** FUJI PHOTO FILM CO LTD  
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**Application Number:** JP1996000147330

**IPC Code:** H01M 4/08; H01M 4/04;

**Priority Number:** 1996-06-10 JP1996000147330

**Abstract:**

**PROBLEM TO BE SOLVED:** To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

**SOLUTION:** This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy electrode plate 26 continuously carried in an arrowed direction A in order to intermittently apply an active material to a hoop-like copper foil support body at fixed intervals and stick a lithium foil 28 which is a thin metal foil adhesive to metal to the surface of 26a at a prescribed pitch. A nip roller 40 is arranged on the other surface 26b of the electrode plate 26 in such a manner as to approach to and retreat from the surface 26b.

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**Family:** None

**Other Abstract Info:** CHEMABS 128(07)077594R CAN128(07)077594R DERABS C98-107103 DERC98-107103



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publication: **22.12.97**(84) Designated contracting  
states:(71) Applicant: **FUJI PHOTO FILM CO**(72) Inventor: **TONOHARA KOUJI**

(74) Representative:

**(54) ROLLER FOR  
CLOSELY CONTACTING  
LITHIUM FOIL AND ITS  
MANUFACTURE**

(57) Abstract:

**PROBLEM TO BE SOLVED:** To impart a sufficient close contact strength to a lithium foil with a small pressure contacting force by knurling the outer circumferential surface of a resin-made roller for closely adhering the lithium foil to an electrode plate.

**SOLUTION:** This roller 10 has a metallic shaft core 14 having a knurling 12 on the outer circumferential surface and a cylindrical body 16 made of a resin such as super-high density polyethylene or polypropylene to which the shaft core 14 is press fitted. The outer circumferential surface of the cylindrical body 16 has a knurling 18, and a plurality of hole part 19 are also formed thereon according to requirement. The roller 10 is arranged on one surface 26a side of a lengthy

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